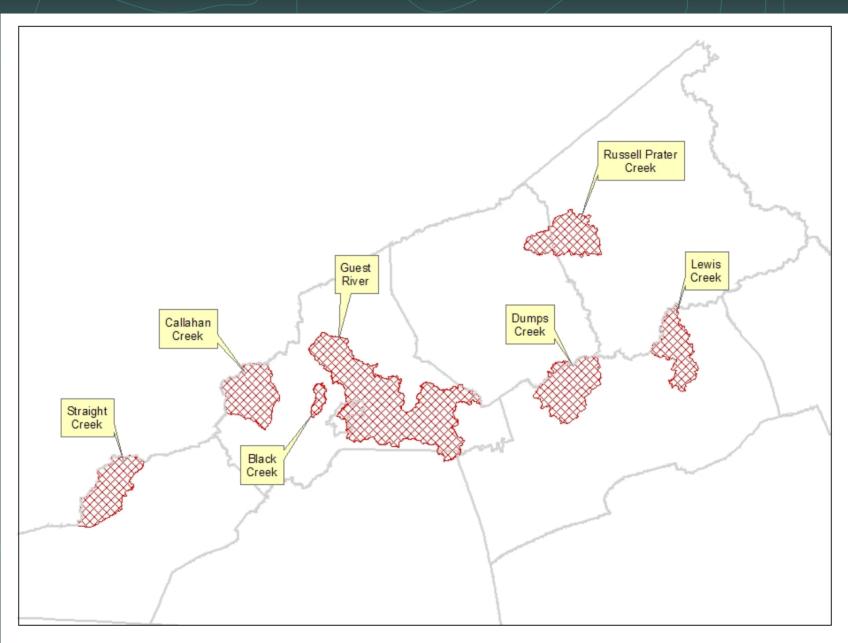
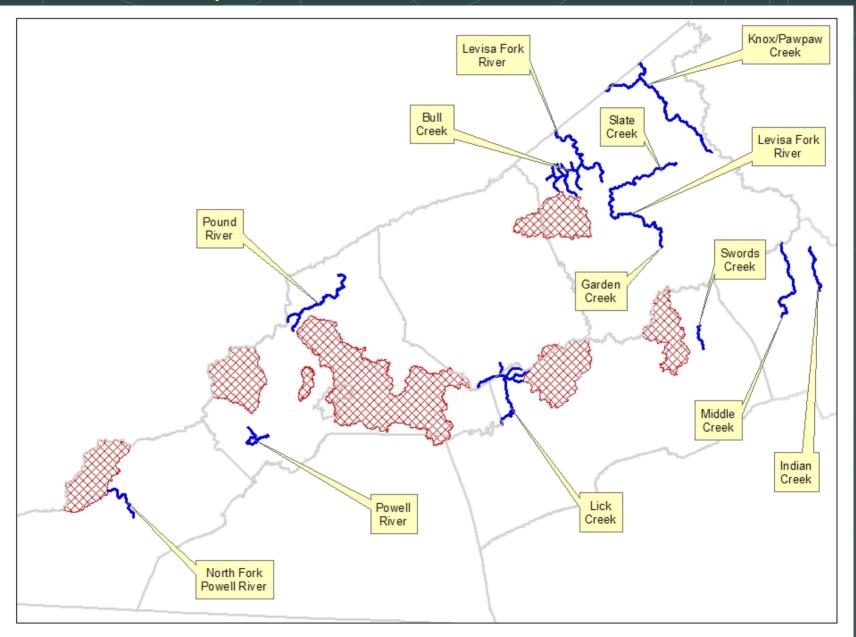
TMDL Permitting Processes

Virginia Division of Mined Land Reclamation

TMDL Watersheds in Coalfields



Impaired Streams in Coalfields



Introduction

- Additional stream segments impaired by "resource extraction" have been identified within the coalfields.
- Approximately 75 percent of permits processed by DMME may be affected by TMDL requirements.
- DMME will calculate waste load on a quarterly basis for reported loads
- DMME will recalculate TMDL loads for each submitted application within a TMDL watershed

Introduction

- TMDL review procedure implemented December1, 2005
- Procedure available on DMLR Website
 - http://www.mme.state.va.us/Dmlr/default.htm
 - DMLR Guidance Memo Form 14-05 under operator memos.

Introduction

- Review procedure consists of four general steps
 - TMDL screening
 - EPA notification
 - CHIA modification
 - Waste load evaluation

Review Process Step 1 (Screening)

- Drafting review
- TMDL report conformity
- TMDL waste load compliance

Review Process Step 2 (EPA notification)

- TMDL reviewer will determine EPA notification
- DMLR will submit summary information to EPA
- Applicant may be required to submit sections of the application for EPA
- EPA has 30 day comment period

Review Process Step 3 (CHIA modification)

- CHIA will need modification to include
 - Waste load allocation tables
 - Document the available load
 - Document BMPs or other provisions
- DMLR still in process of developing CHIA modifications

Review Process Step 4 (Waste load evaluation)

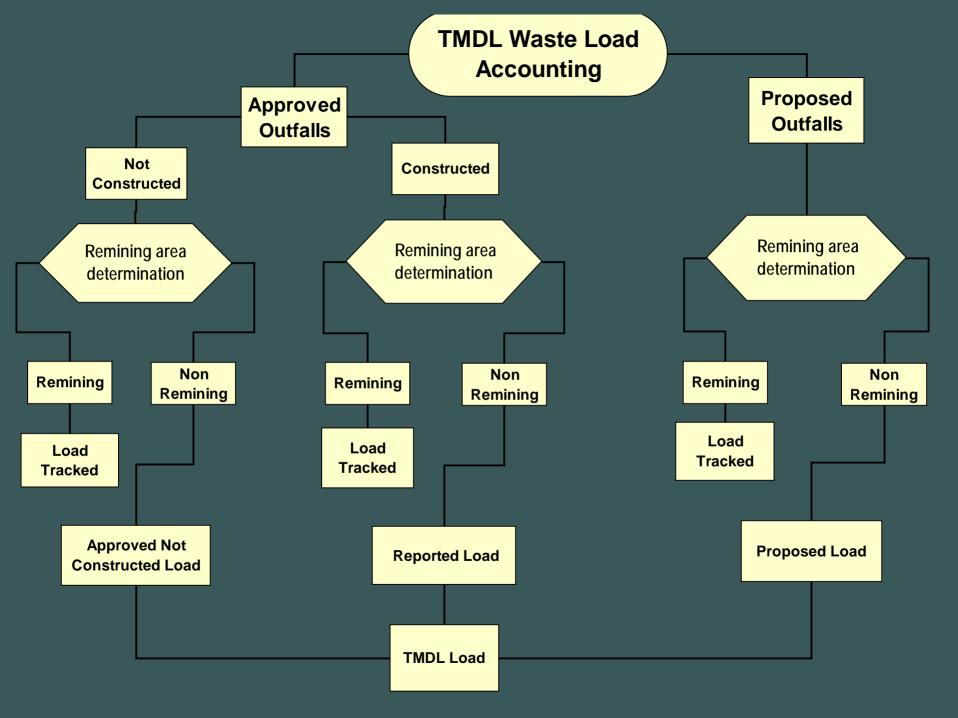
- Waste load accounting
- Remining calculations
- AML load reduction credits

Remining Watersheds

Remining Area



- Developed calculations for Mn, Fe, and TSS
- DMLR will develop calculations for additional parameters as necessary
- Calculations based on three classes of NPDES outfalls
 - Constructed
 - Not constructed
 - Proposed



- Constructed Outfalls
 - Date weighting
 - Reported flow
 - Measured concentration
 - Precipitation exemptions

- Not Constructed Outfalls
 - Averaged flow
 - Assumed concentration

- Proposed Outfalls
 - Averaged flow
 - Assumed concentration

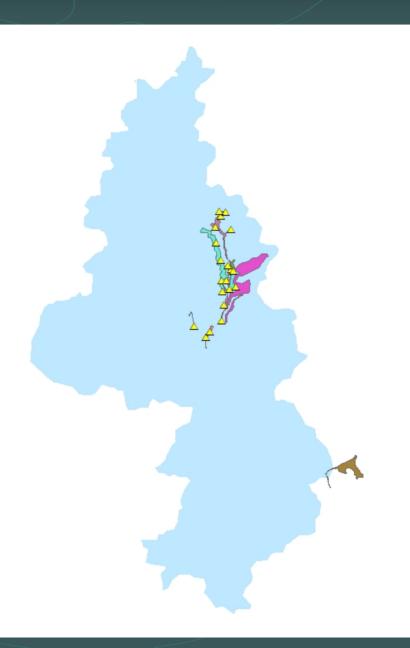
Summary Table

0		2004 and 1st through 3rd Quarter 2005 TMDL Waste Load													
100,000		Outfall Status (Jan. 4, 2006))6)			Reported Load (kg/yr)		Approved		Available Proposed	Proposed			
Section 1	Watershed		`	Not			Outfall Discharge per Watershed Acre			Not Constructed Waste Load	Waste Load	Waste Load 1st through 3rd Qtr.		Adopted Waste Load	
10000	Name	Active	Deleted	Constructed	Proposed		(gpm/acre)	2004	2005	(kg/yr)		2005 (kg/yr)		Allocation	
No. of the last	Guest River	81	15	10	5	TSS	0.9	38693.3	48212.1	18397.4	58,695.30	49,176.50	4655.7	115,786.00	

Individual Application Summary

111	Permit No.	Application No.	Revision No.	Proposed Outfalls	Drainage Area (acres)	Remining Area (acres)	Load Contributing Area (acres)	Proposed Additional Load for this Application (kg/yr)
ğ	New	1003066	1	001	9.24	0	9.24	579.0
B		1003066	1	002	2.64	0	2.64	165.4
N.		1003066	1	003	2.40	0	2.40	150.4
S		1003066	1	004	5.82	0	5.82	364.7
4							TOTAL	1259.5

Lewis Creek Watershed



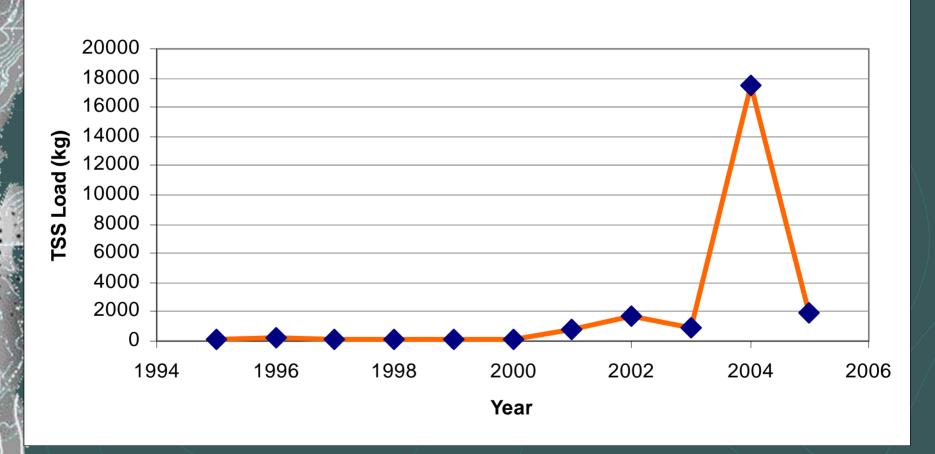
Lewis Creek Summary

	2005 and Previous 4 Quarters Waste Loads													
	Outfall Status 08/11/06					Outfall Discharge per				Approved Not Constructed	Δvailable	Available Waste Load	Proposed Additional	Adopted
Watershed Name	Active	Deleted	Not Constructed	Proposed	Stressor	Watershed Acre (gpm/acre)		2005 (Kg/Yr)	Previous 4 Qtrs (Kg/Yr)		Waste Load 2005			Waste Load Allocation
Lewis Creek	13	0	1	5	TSS	1.3		1346.5	612.7	0	215.50	949.30	174.1	1,562.00

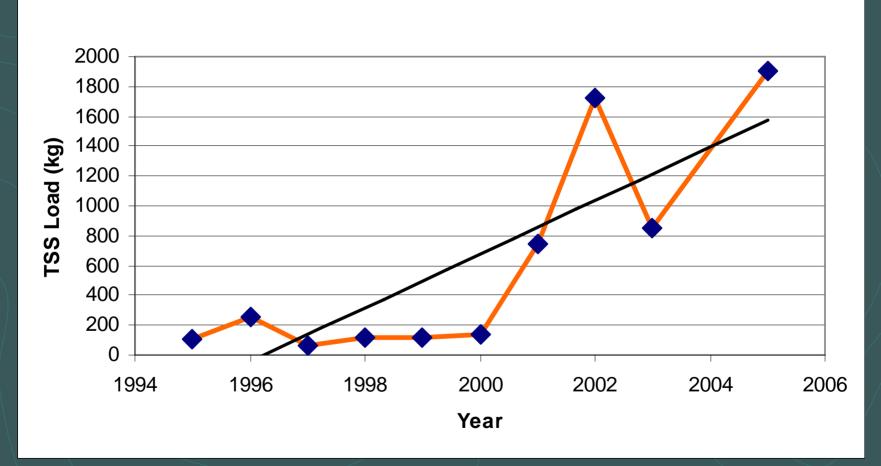
Individual Application Summary

Permit No.	Application No.	Revision No.	Proposed Outfalls	Drainage Area (acres)	Remining Area (acres)	Load Contributing Area (acres)	Waste Load from Mine Dewatering	Proposed Additional Load for this Application (kg/yr)		
New	1001884		001	19.30	19.3	0.00	NA	0.0		
New	1001884		002	28.80	28.8	0.00	174.10	174.1		
New	1001884		003	28.10	28.1	0.00	NA	0.0		
New	1001884		004	6.70	6.7	0.00	NA	0.0		
New	1001884		005	3.30	3.3	0.00	NA	0.0		
TOTAL										

Lewis Creek TSS Load







Lewis Creek Options

- Three waste load reduction options may be available for additional waste load
 - BMPs
 - Load trading
 - TMDL revision

Summary

- TMDLs will significantly impact permitting process
- Increase work loads for permit preparation and review
- Will require changes to EP
- May impact approximately 75% of permits
- More work needs to be done by DMLR to complete the TMDL process